

AC axial fan

straight blades (A series)

with guard grille for full nozzle

S2E300-BC47-19 ebmpapst Datasheet

sales@fansco.com

www.fansco.com

Nominal data

Type	S2E300-BC47-19				
Motor	M2E068-EC				
Phase		1~	1~	1~	1~
Nominal voltage	VAC	230	230	230	230
Frequency	Hz	50	60	60	60
Type of data definition		fa	fa	fa	fa
Valid for approval / standard		CE	UL 2111	CSA	CE
Speed (rpm)	min ⁻¹	2650	2900	2900	2900
Power input	W	140	200	200	190
Current draw	A	0.62	0.88	0.88	0.83
Motor capacitor	μF	5	5	5	5
Capacitor voltage	VDB	400	400	400	400
Capacitor standard			S0 (CE)	UL	
Max. back pressure	Pa	150	150	150	150
Min. ambient temperature	°C	-25	-25	-25	-25
Max. ambient temperature	°C	75	70	70	70

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations

Data according to ErP directive

		Actual	Request 2015
01 Overall efficiency η_{es}	%	28.7	28.6
02 Measurement category		A	
03 Efficiency category		Static	
04 Efficiency grade N		40.1	40
05 Variable speed drive		No	

Data definition with optimum efficiency.

The ErP data is determined using a motor-impeller combination in a standardised measurement configuration.

09 Power input P_e	kW	0.16
09 Air flow q_v	m³/h	1650
09 Pressure increase p_{fs}	Pa	100
10 Speed (rpm) n	min ⁻¹	2565
11 Specific ratio*		1.00

* Specific ratio = $1 + p_{fs} / 100\,000\text{ Pa}$

LU-66600



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Technical features

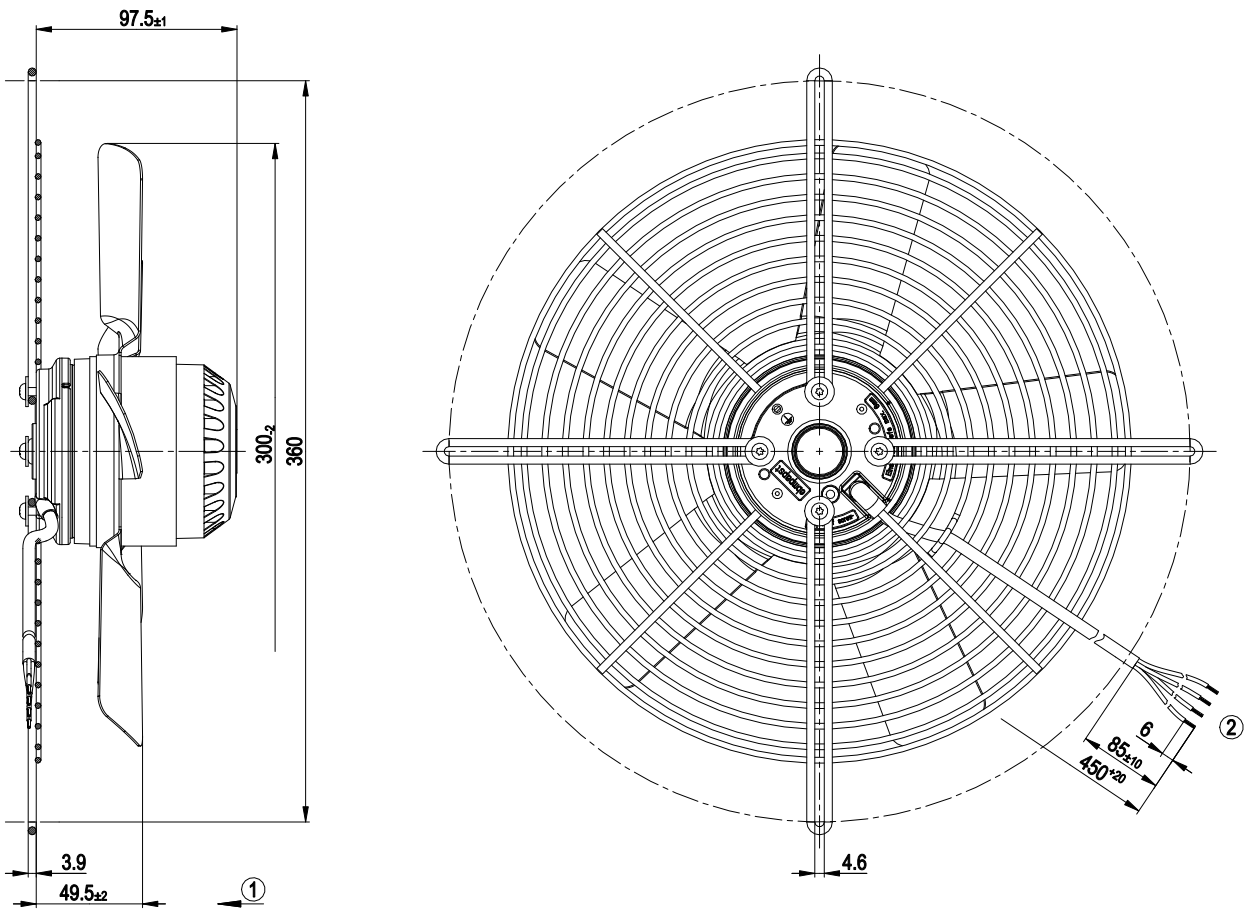
Mass	3.2 kg
Size	300 mm
Surface of rotor	Coated in black
Material of blades	Sheet steel, coated in black
Material of guard grille	Steel, coated in black plastic (RAL9005)
Number of blades	5
Direction of air flow	"V"
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position as per EN 60034-1
Insulation class	"F"
Humidity (F)/environmental protection class (H)	H0+
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensate discharge holes	Rotor-side
Operation mode	S1
Motor bearing	Ball bearing
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	< 0.75 mA
Motor protection	Thermal overload protector (TOP) wired internally
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE
Approval	CSA C22.2 No.100; UL 1004-1



AC axial fan

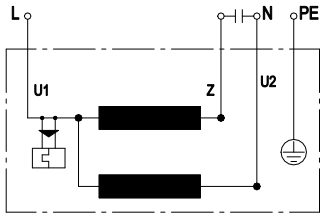
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Product drawing



- | | |
|---|---|
| 1 | Direction of air flow "V" |
| 2 | Connection line silicone 4G 0.5 mm², 4x lead tips crimped |

Connection screen

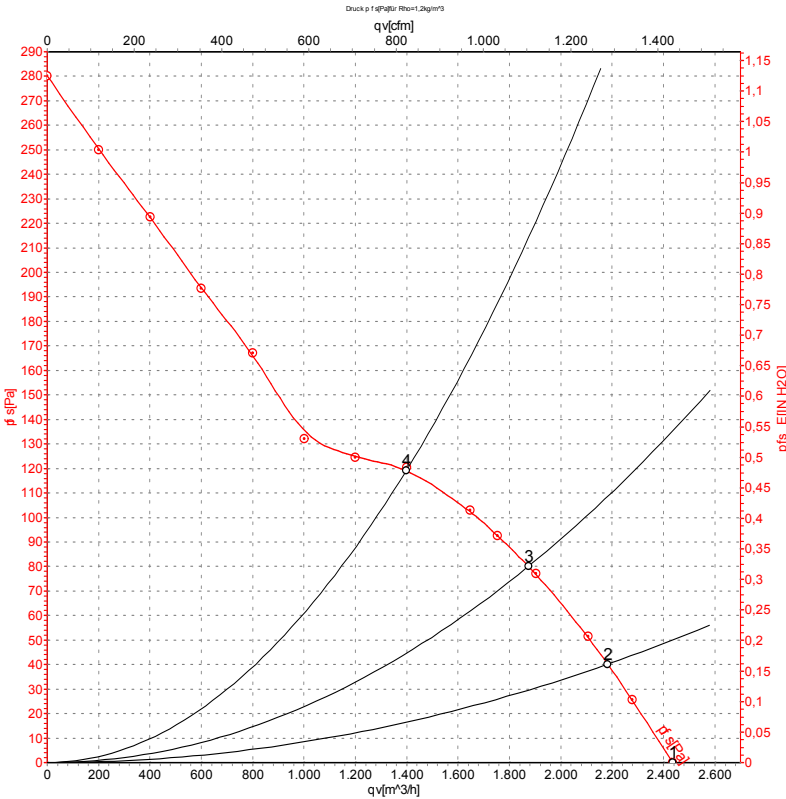


U1	blue	Z	brown	U2	black
PE	green/yellow				



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Charts: Air flow 50 Hz



Measurement: LU-66600-1

Air performance measured as per ISO 5801
Installation category A. For detailed
information on the measuring set-up, please
contact ebm-papst. Suction-side noise
levels: L_{wA} measured as per ISO 13347 /
L_{pA} measured with 1m distance to fan axis.
The values given are valid under the
measuring conditions mentioned above and
may vary according to the actual installation
situation. With any deviation from the
standard set-up, the specific values have to
be checked and reviewed with the unit
installed.

Measured values

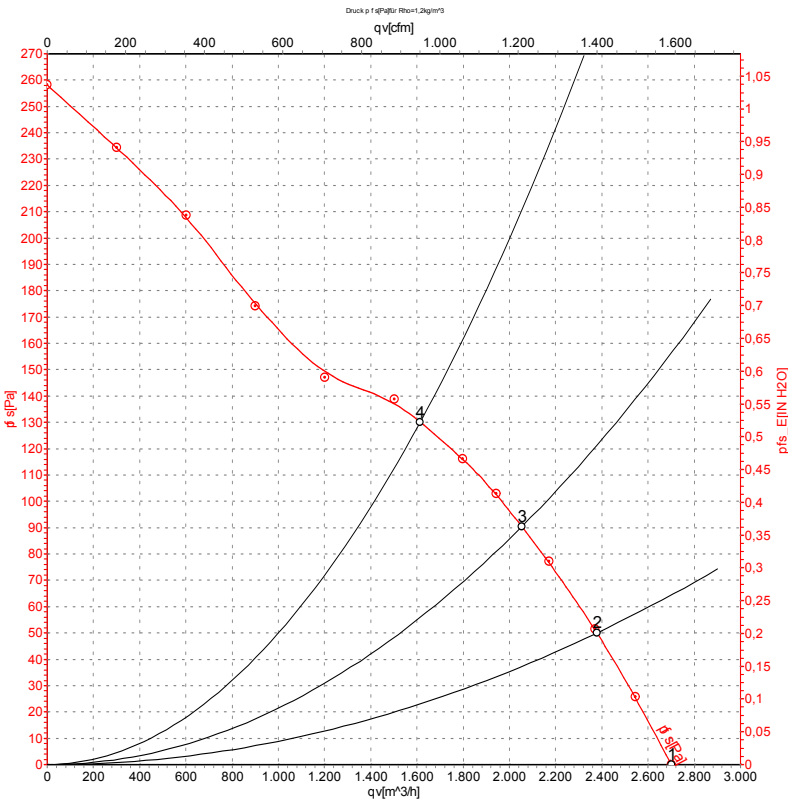
	U	f	n	P _e	I	LpA _{in}	q _v	p _{fs}	q _v	p _{fs}
	V	Hz	min ⁻¹	W	A	dB(A)	m³/h	Pa	cfm	inH2O
1	230	50	2650	140	0.62	75	2435	0	1435	0.00
2	230	50	2615	151	0.66		2185	40	1285	0.16
3	230	50	2580	158	0.69		1875	80	1105	0.32
4	230	50	2560	162	0.71		1400	120	825	0.48

U = Supply voltage · f = Frequency · n = Speed (rpm) · P_e = Power input · I = Current draw · LpA_{in} = Sound pressure level inlet side · q_v = Air flow · p_{fs} = Pressure increase



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Charts: Air flow 60 Hz



Measurement: LU-66601-1

Air performance measured as per ISO 5801
Installation category A. For detailed
information on the measuring set-up, please
contact ebm-papst. Suction-side noise
levels: L_{wA} measured as per ISO 13347 /
L_{pA} measured with 1m distance to fan axis.
The values given are valid under the
measuring conditions mentioned above and
may vary according to the actual installation
situation. With any deviation from the
standard set-up, the specific values have to
be checked and reviewed with the unit
installed.

Measured values

	U	f	n	P _e	I	LpA _{in}	q _v	p _{fs}	q _v	p _{fs}
	V	Hz	min ⁻¹	W	A	dB(A)	m ³ /h	Pa	cfm	inH ₂ O
1	230	60	2900	190	0.83	78	2700	0	1590	0.00
2	230	60	2865	205	0.90		2380	50	1400	0.20
3	230	60	2805	213	0.93		2055	90	1210	0.36
4	230	60	2755	218	0.95		1615	130	950	0.52

U = Supply voltage · f = Frequency · n = Speed (rpm) · P_e = Power input · I = Current draw · LpA_{in} = Sound pressure level inlet side · q_v = Air flow · p_{fs} = Pressure increase

